

What is claimed is:

1. A floor construction comprising:

a plurality of surface portions, each comprising at least one respective material with possibly different properties, in particular properties in regard to human perception when standing on the surface portions, characterized in that different surface portions are of such an arrangement and configuration that when moving on the floor construction a continuously changing, unforeseeable sequence of different surface portions has to be unavoidably stepped on.
2. The floor construction according to claim 1, wherein the surface portions are each formed from the same material, thus avoiding a unitary, externally homogeneous surface, but that incorporated into the surface portions are identical or different inclusions cast therein so that when the surface portions are stepped upon overall different tactile stimuli are produced.
3. The floor construction according to claim 1 or 2, wherein the surface portions represent portions of the floor construction that are separated from each other.
4. The floor construction according to claim 1, wherein the surface portions differ from each other in respect to at least one of shape and size.
5. The floor construction according to claim 1, wherein the properties comprise a degree of hardness or at least one of a hardness, a surface roughness, a surface structure, and a viscosity, or at least one of elasticity and a surface temperature of the material.

6. The floor construction according to claim 1, wherein the surface portions are of at least one of a solid material, a loose material, materials having different grain size, gel-like materials, and bristle materials.
7. The floor construction according to claim 1, wherein at least one of the surface portions and tilting elements of the surface portions are movably mounted such that when a person steps thereon at least one of the surface portions and tilting elements changes position by tilting, pivoting, sliding, or sinking at different speeds.
8. The floor construction according to claim 1, wherein at least one surface portion further comprises a heating or cooling means that heats or cools the at least one surface portion.
9. The floor construction according to claim 1, wherein at least one surface portion further comprises a plurality of perpendicularly standing bar portions.
10. The floor construction according to claim 1, further comprising bar portions having different degrees of stiffness.
11. The floor construction according to claim 1, further comprising groups of bar portions having different degrees of stiffness arranged in a surface portion.
12. The floor construction according to claim 1, further comprising an upper construction that contains the surface portions and is supported by a sub-construction.

13. The floor construction according to claim 12, wherein the sub-construction is a flexible material.
14. The floor construction according to claim 12, wherein the upper construction is foam in which other materials are cast.
15. The floor construction according to claim 1, wherein the floor construction can be used in at least one of inside and outside spaces.
16. The floor construction according to claim 1, wherein the floor construction is suitable for laying on conventional floor coverings.
17. The floor construction according to claim 1, further comprising a sealing means disposed between adjacent surface portions.
18. The floor construction according to claim 1, wherein a transition between different surface portions is effected in an edge-free manner.
19. The floor construction according to claim 1, wherein the surface portions further comprise a closed internal space filled with a liquid substance, wherein the substance changes viscosity when an electrical voltage is applied thereto or when the substance changes temperature.
20. The floor construction according to claim 19, wherein the liquid substance is oil like.

21. The floor construction according to claim 1, wherein each of the surface portions further comprises a closed internal space, the internal spaces of the respective surface portions connected in a mutually communicative relationship and filled with a material or at least one of a predetermined viscosity or toughness.
22. Use of the floor construction according to claim 1, 2, 4, 5, 6, 7, 8, 11, 12, 19, or 21 wherein the floor construction is in the form of at least one of a children's play mat and a children's play covering.
23. A process for the production of the floor construction according to claim 1, 2, 4, 5, 6, 7, 8, 11, 12, 19, or 21 in that an arrangement and a configuration, preferably in respect of shape and size, of the surface portions are implemented in accordance with at least one of room-related criteria and by means of a random generator.
24. A process for the production of the floor construction according to claim 1, 2, 4, 5, 6, 7, 8, 11, 12, 19, or 21 in that elements that respectively produce different tactile stimuli when a person stands thereon are cast into a carrier material of the floor construction, preferably a panel of expanded polypropylene (EPP) or other plastic material.